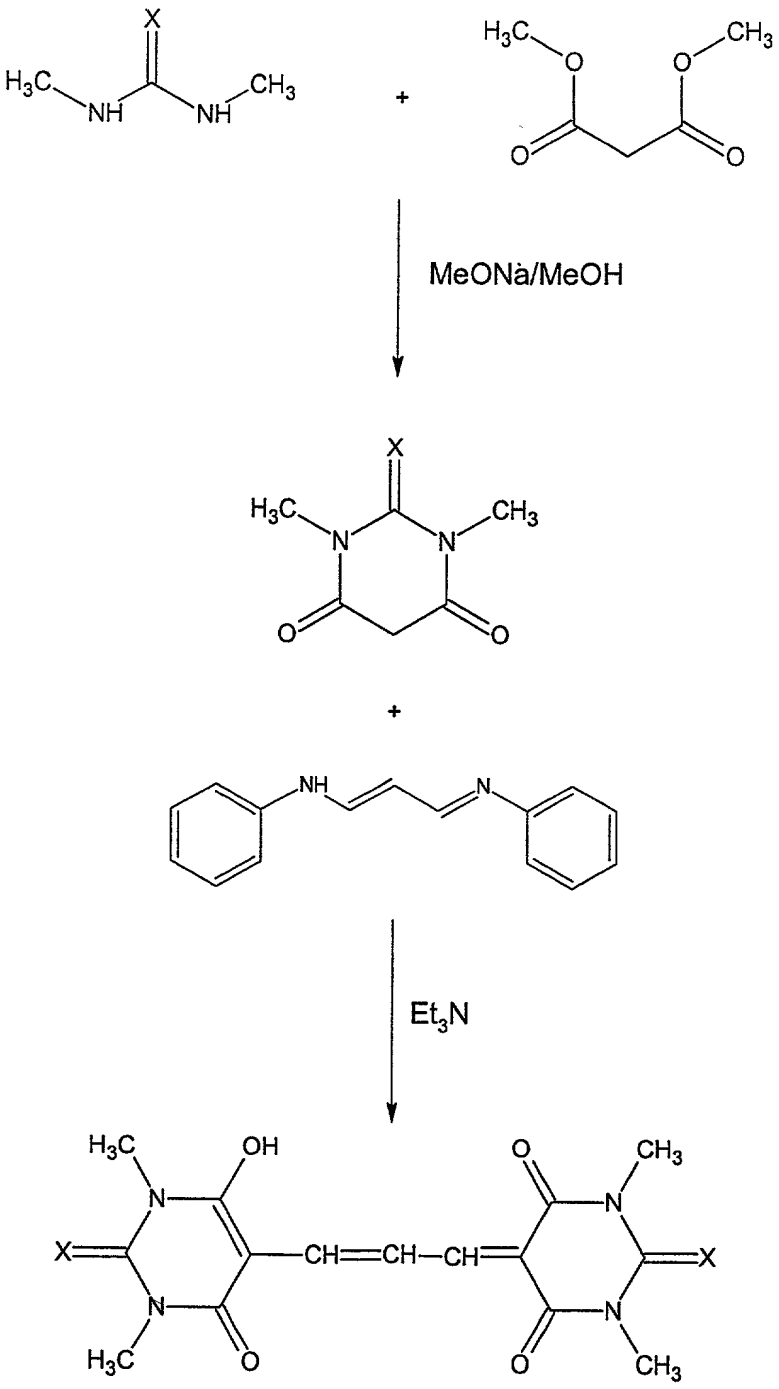

X
H3C
NH
NH
CH3
+
H3C
O
O
CH3
O
O
MeONa/MeOH
X
H3C
N
N
CH3
O
O
+
NH
N
Et3N
H3C
OH
N
X
CH=CH-CH
O
CH3
N
X
N
H3C
O
O
N
CH3

FIGURE 1

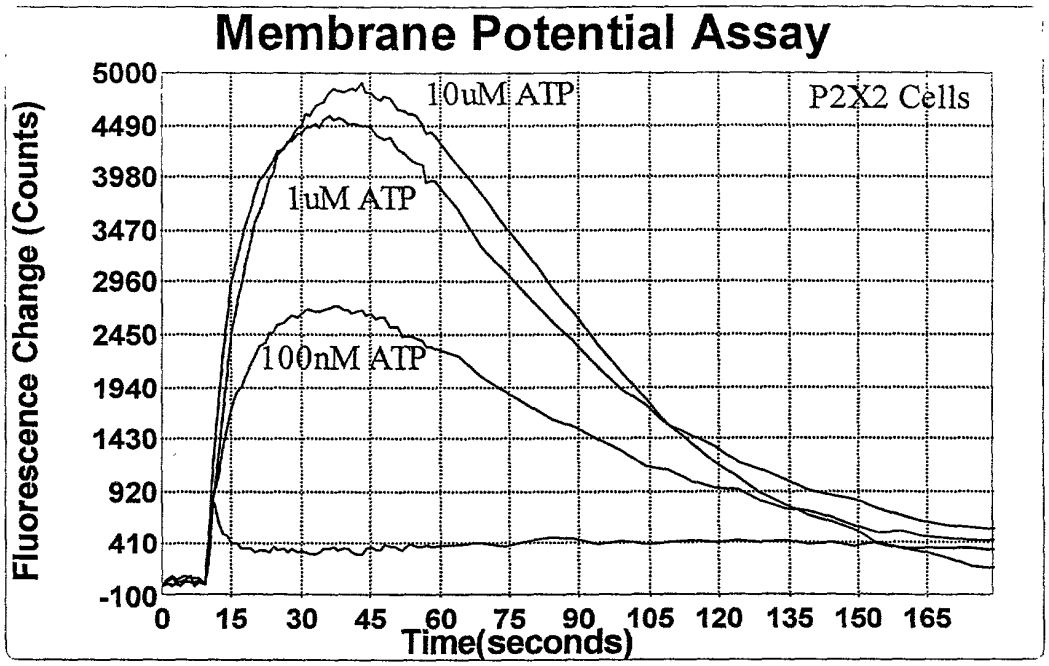
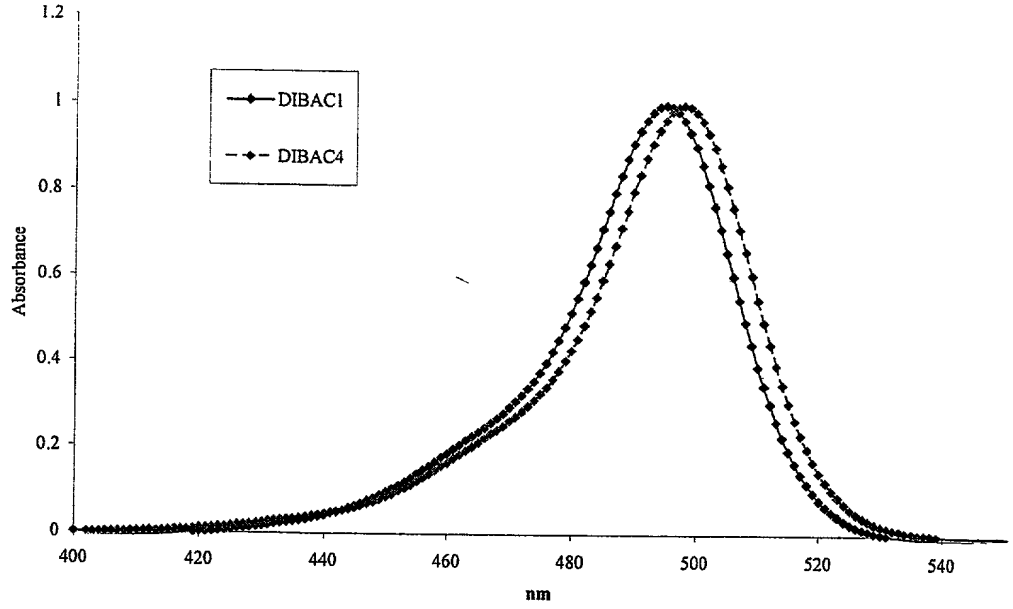

Membrane Potential Assay
Fluorescence Change (Counts)
5000
4490
3980
3470
2960
2450
1940
1430
920
410
-100
0
15
30
45
60
75
90
105
120
135
150
165
Time(seconds)
10uM ATP
1uM ATP
100nM ATP
P2X2 Cells

FIGURE 2


DIBAC1
DIBAC4
Absorbance
nm
1.2
1
0.8
0.6
0.4
0.2
0
400
420
440
460
480
500
520
540

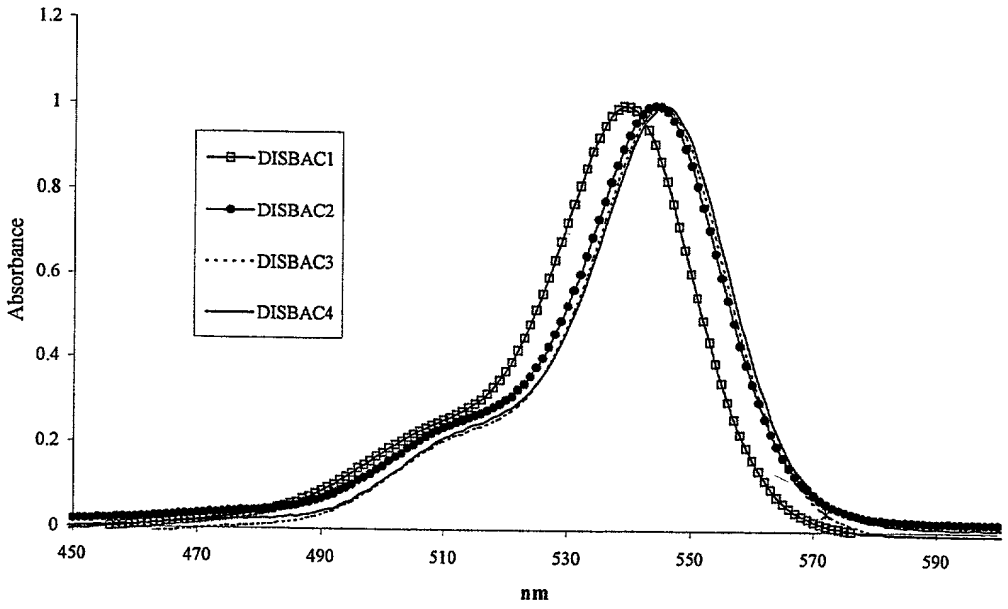
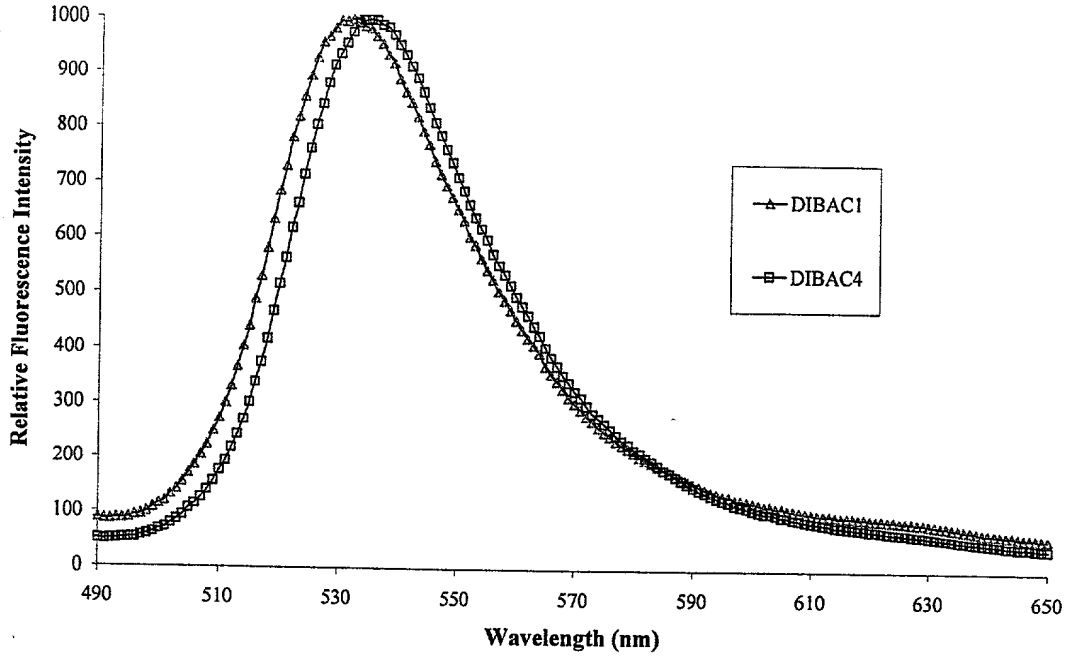

DISBAC1
DISBAC2
DISBAC3
DISBAC4
Absorbance
nm
1.2
1
0.8
0.6
0.4
0.2
0
450
470
490
510
530
550
570
590

FIGURE 3


Relative Fluorescence Intensity
1000
900
800
700
600
500
400
300
200
100
0
490
510
530
550
570
590
610
630
650
Wavelength (nm)
DIBAC1
DIBAC4

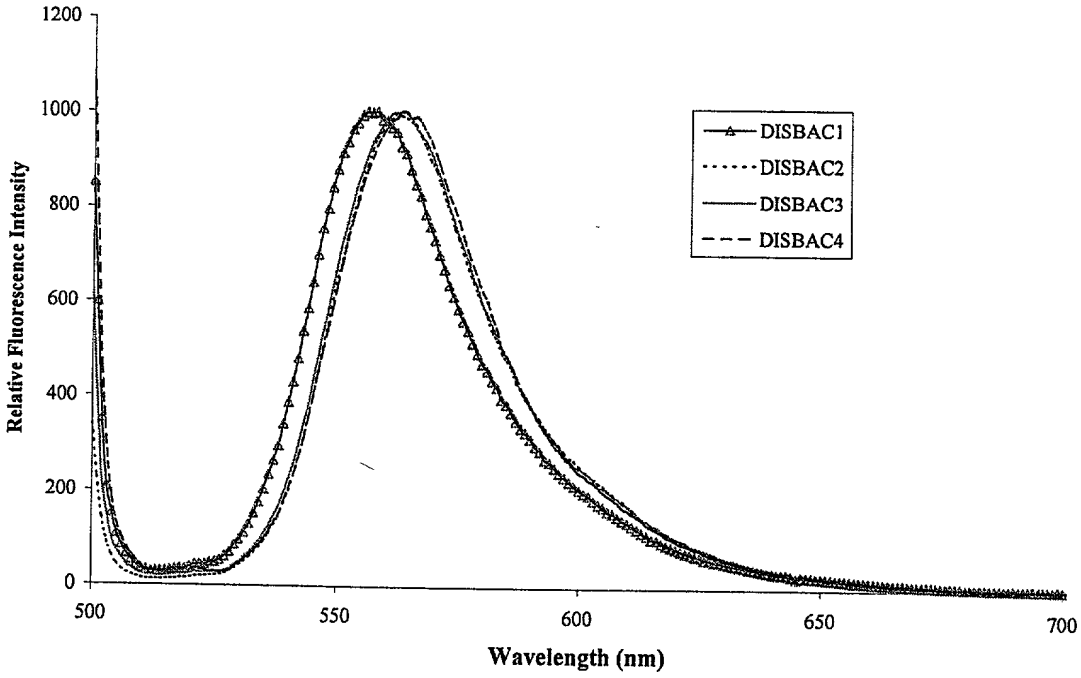

Relative Fluorescence Intensity
1200
1000
800
600
400
200
0
500
550
600
650
700
Wavelength (nm)
DISBAC1
DISBAC2
DISBAC3
DISBAC4

FIGURE 4